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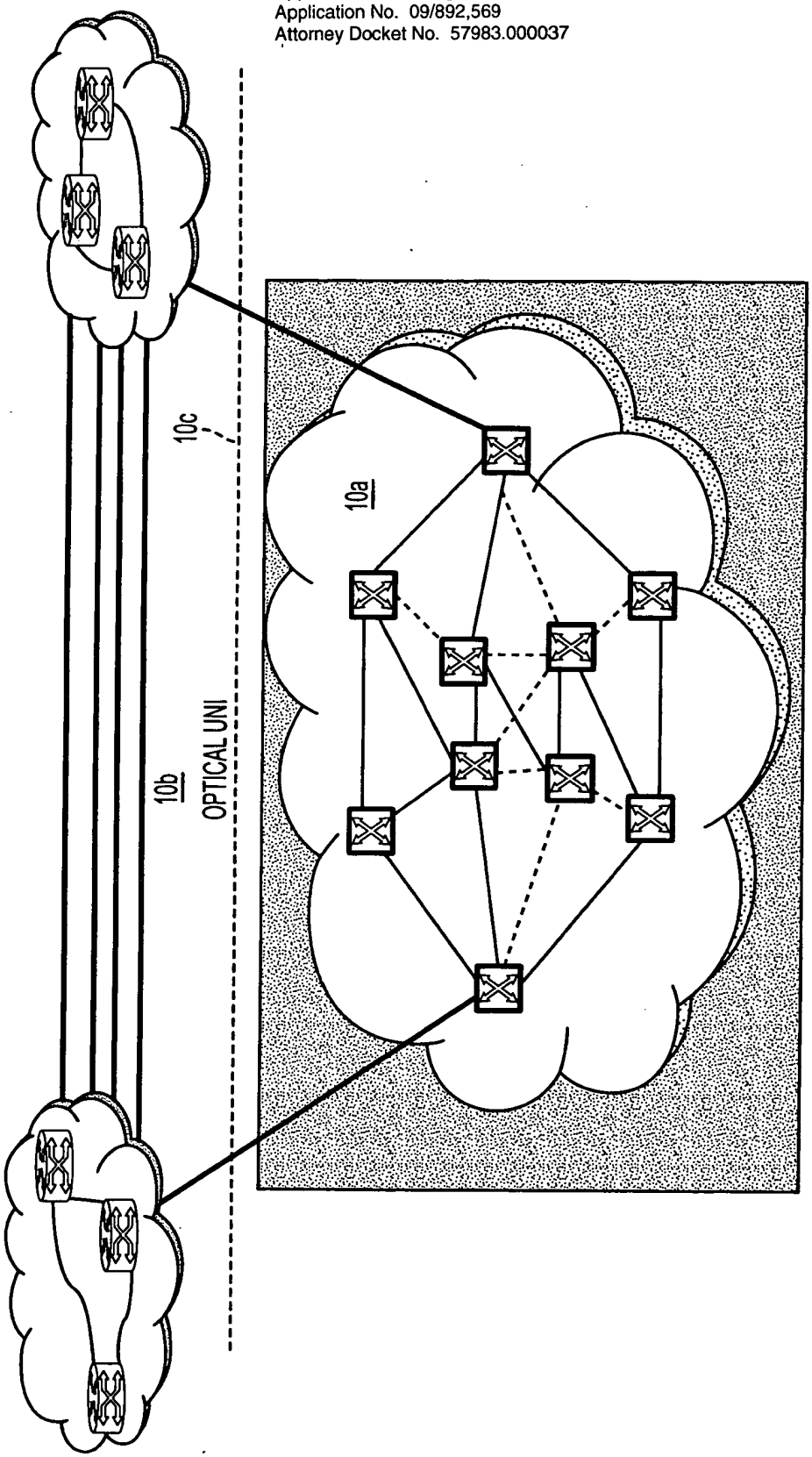

FIG. 1A

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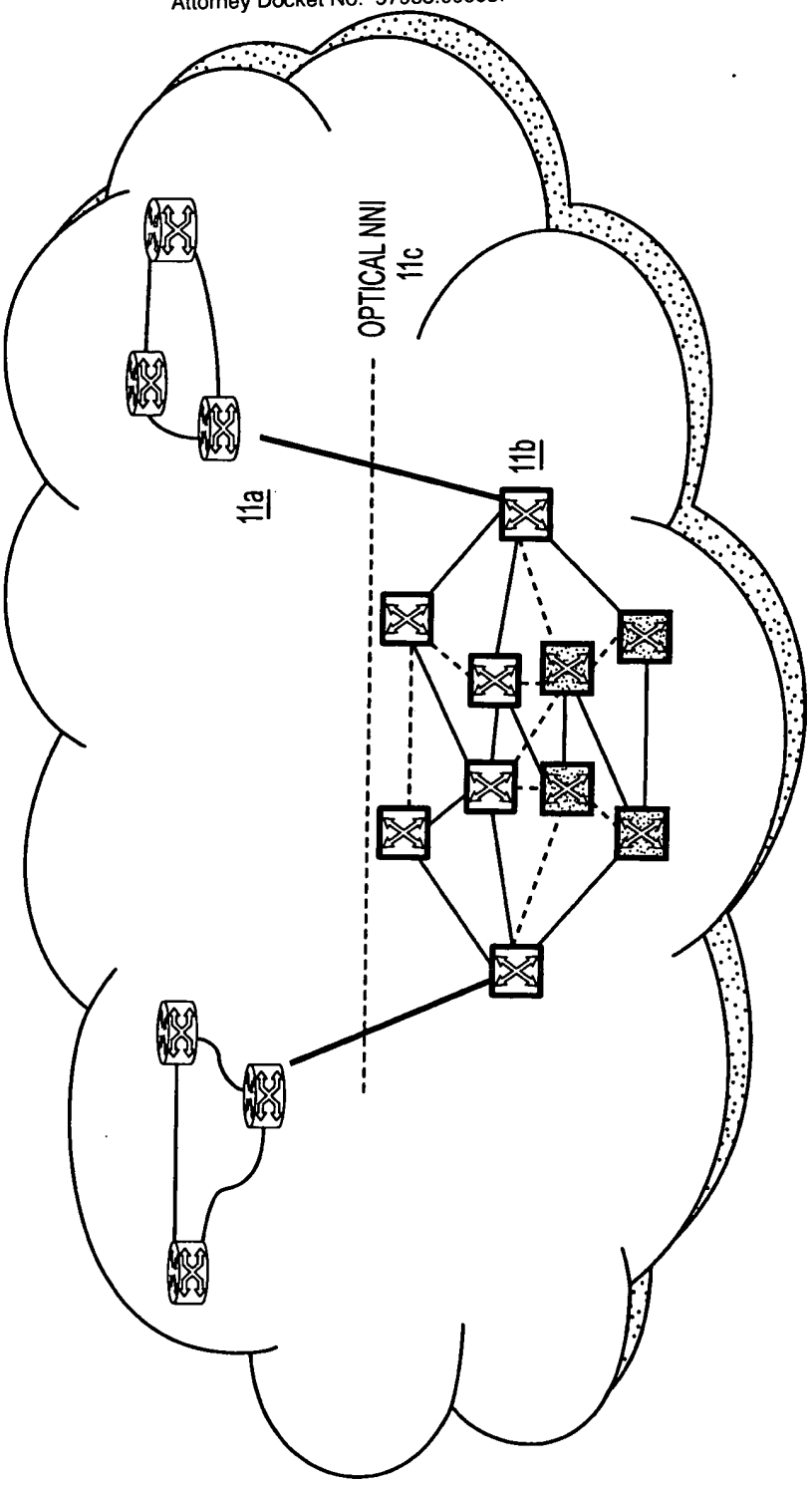

FIG. 1B

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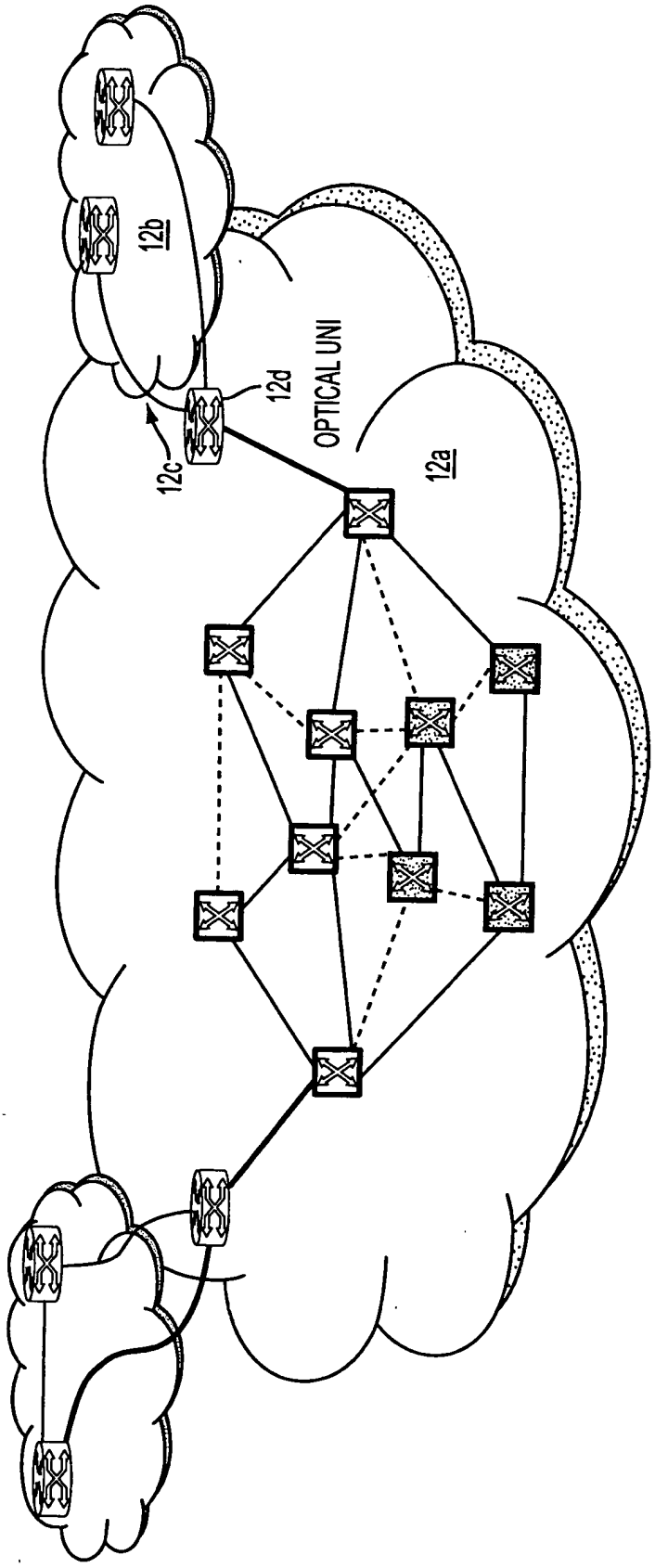

FIG. 1C

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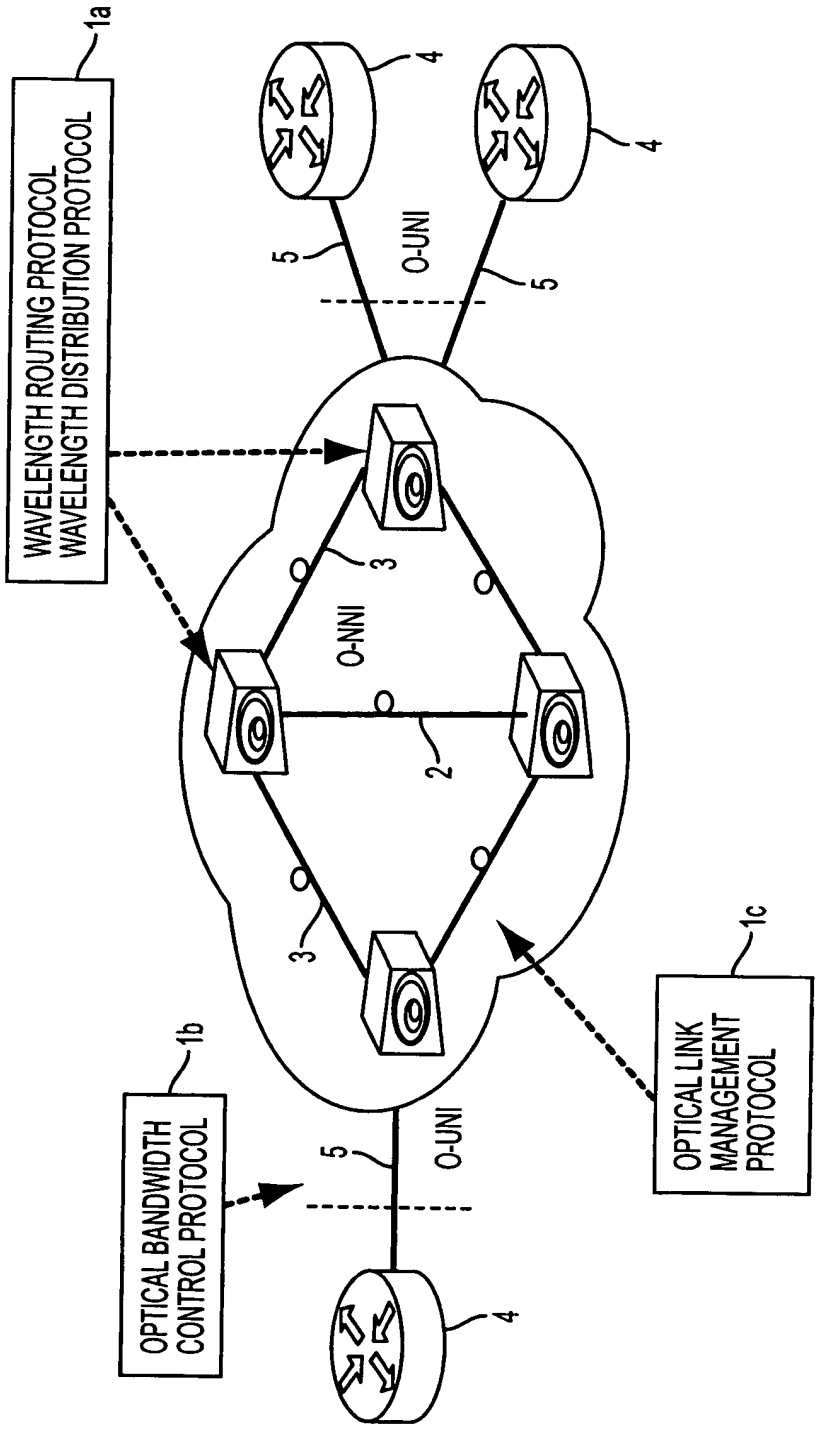

FIG. 2

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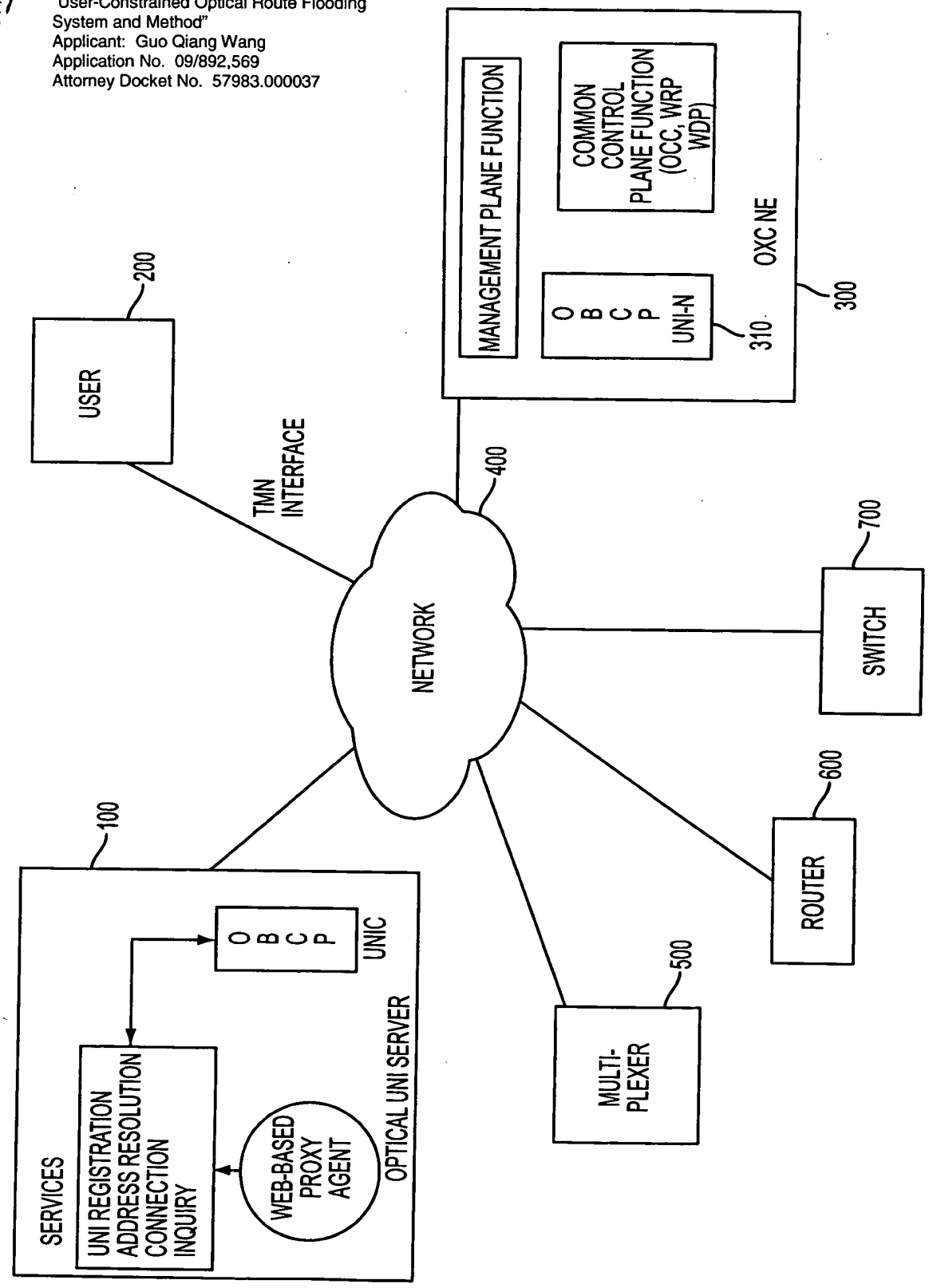

FIG. 3

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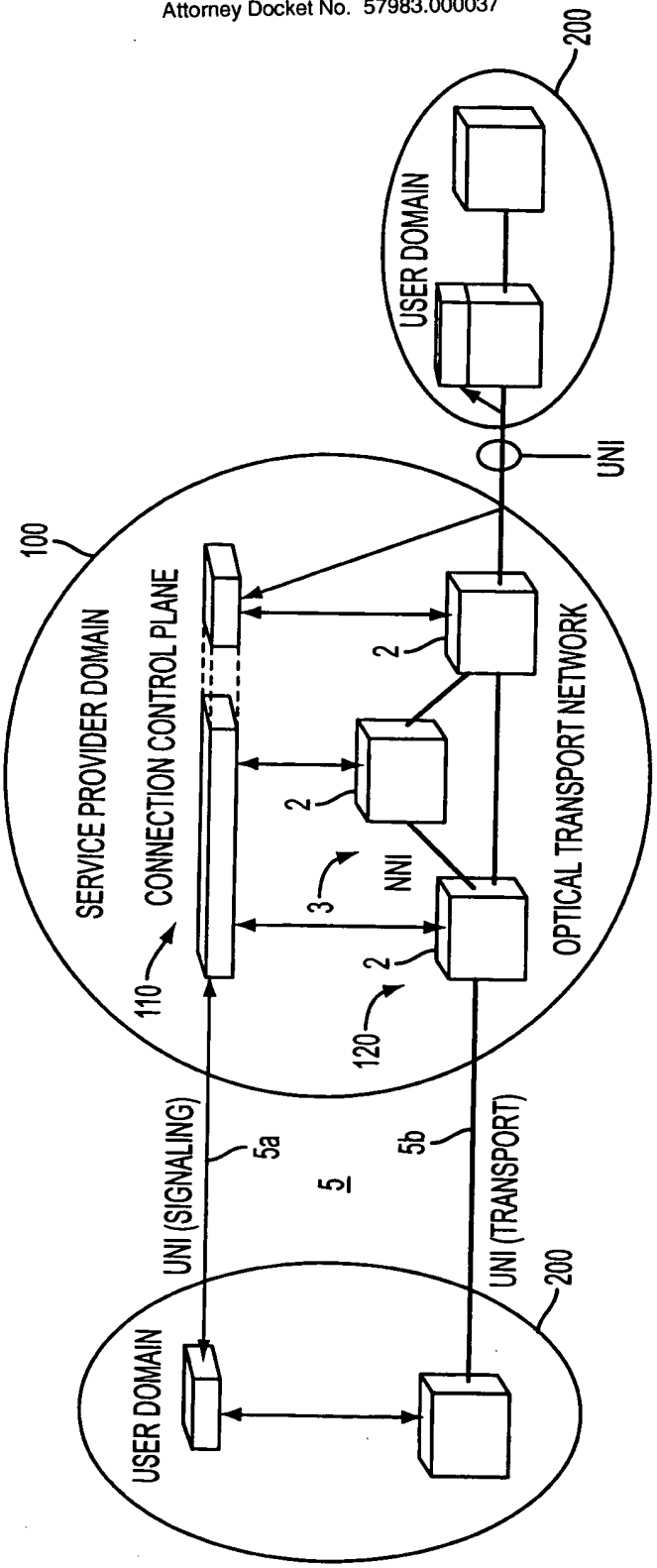

FIG. 4

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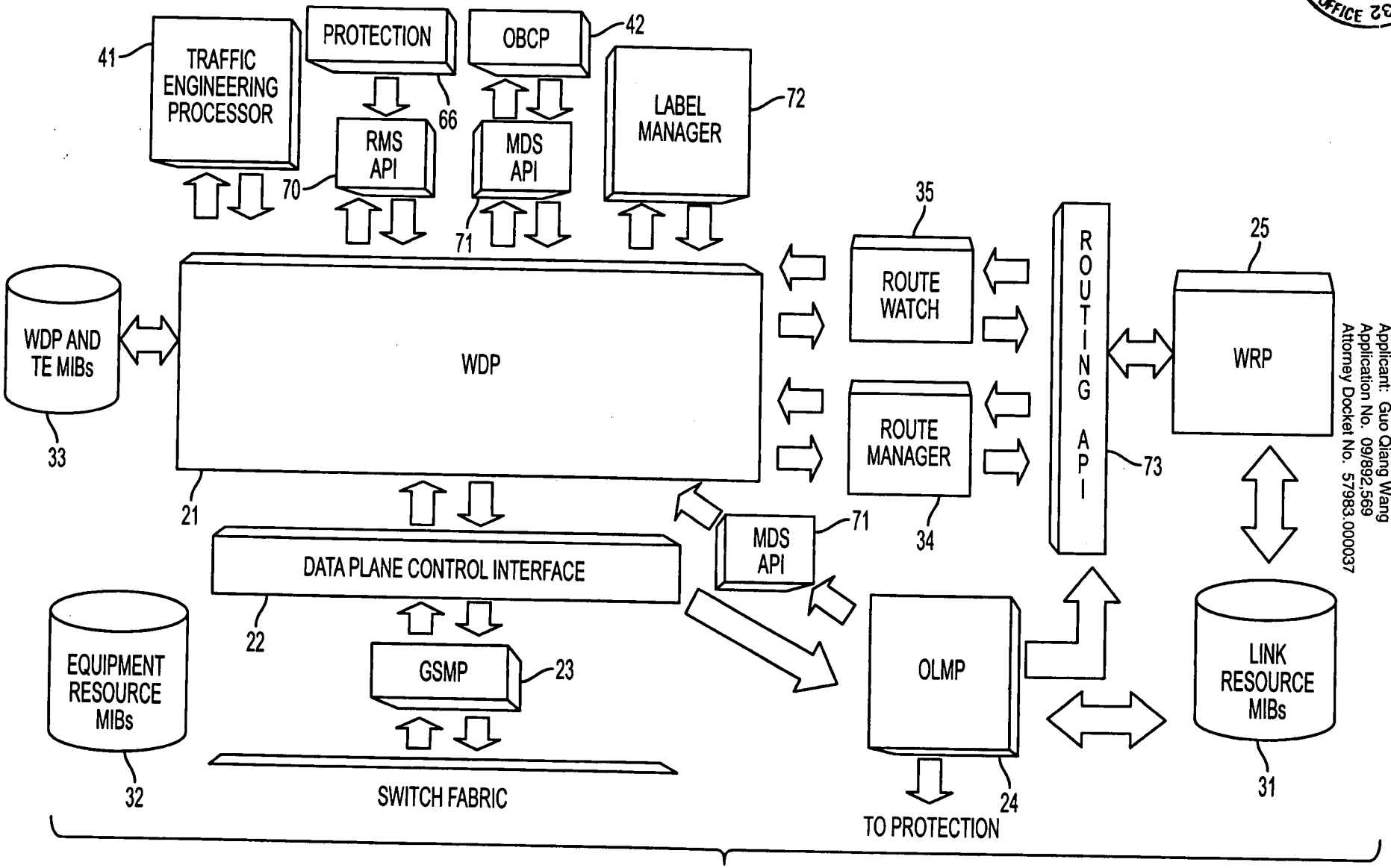

FIG. 5

"User-Constrained Optical Route Flooding System and Method"
Applicant: Guo Qiang Wang
Application No. 09/892,569
Attorney Docket No. 57983.000037

OIPE JC32
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PATENT & TRADEMARK OFFICE

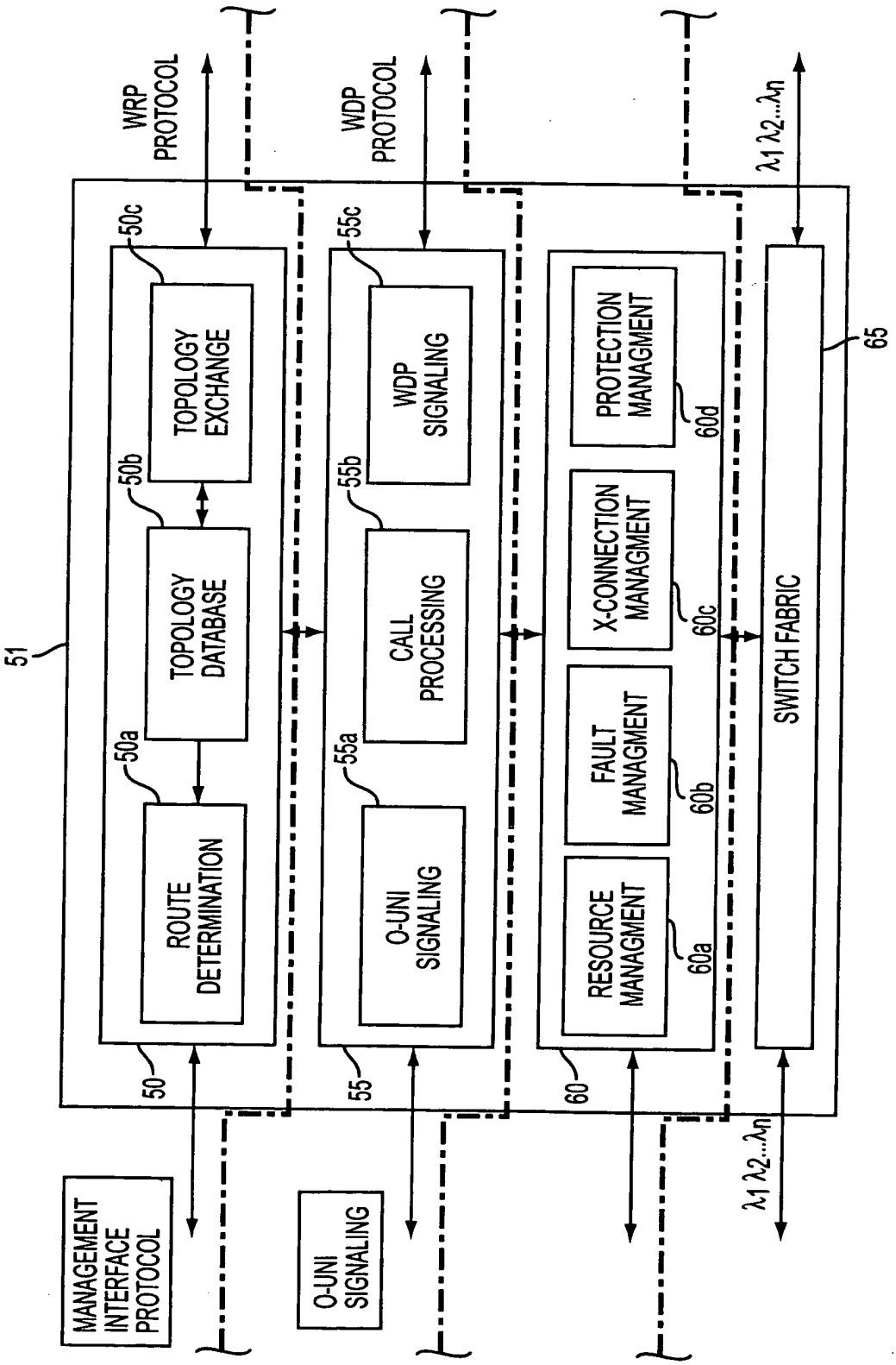

FIG. 6

OIPE JC32
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PATENT & TRADEMARK OFFICE

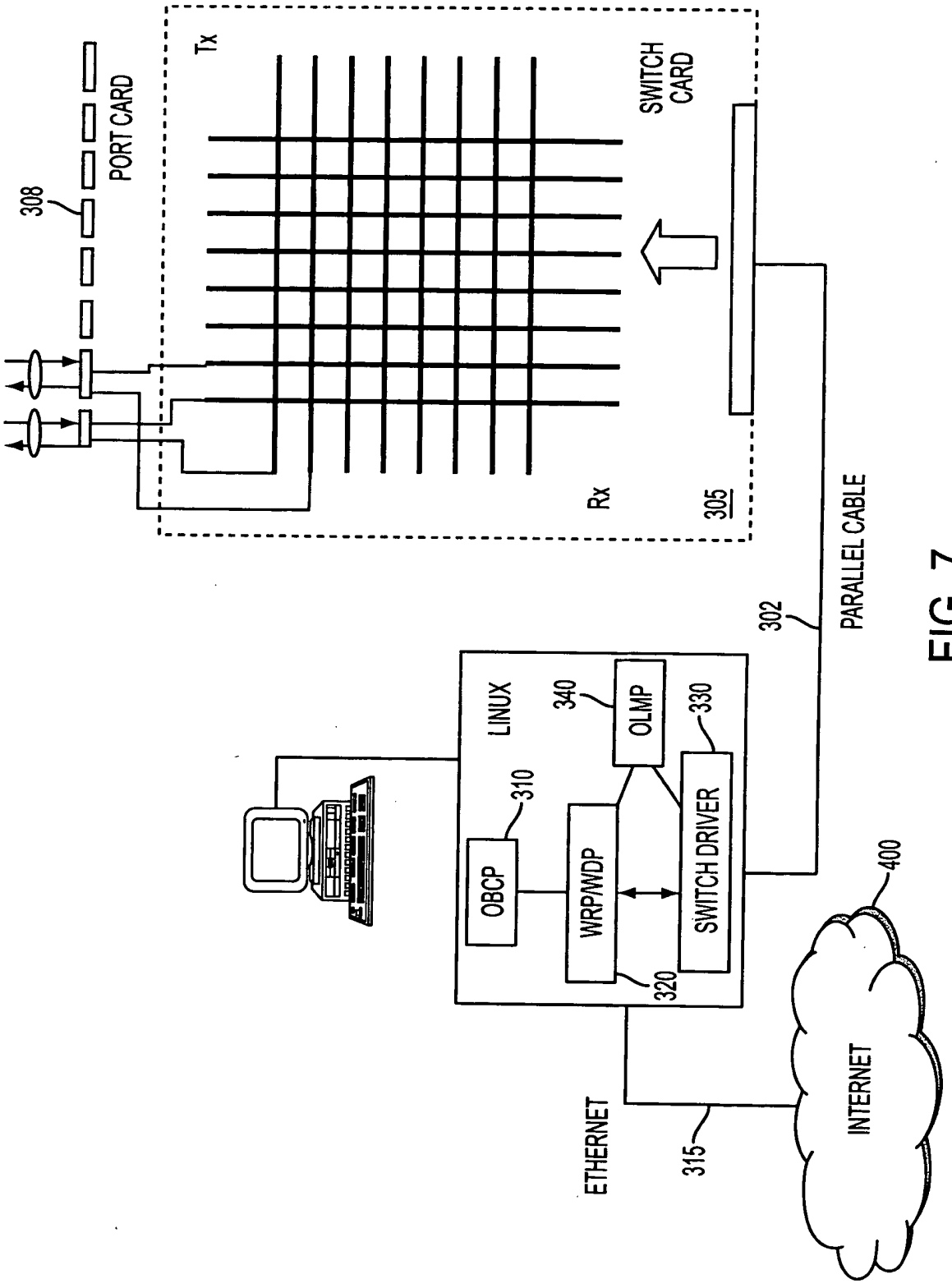

FIG. 7

O·I P E
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OPTICAL INTERFACE DESCRIPTOR 110	USER TERMINATION POINT 112
	USER GROUP ID 114
	USER CONTRACT ID 116
	USER SERVICE MODE 118
OPTICAL LINK ADMINISTRATIVE DOMAIN 120	CUSTOMIZED-LINK RELATED (LINK COLOR) 122
	BROADCAST 123
	BLOCK (DEFAULT) 124
	OPTICAL INTERFACE DESCRIPTOR 125
SERVICE LSA 130	OPTICAL INTERFACE DESCRIPTOR TLV 132 INCLUDING
	USER SERVICE TYPE (ATM, IP, ETC.)
	CONTROL PROTOCOL (BGP, PNNI, ETC.)
	FRAMING PROTOCOL (GE, OX-c, FIBER CHANNEL, ETC., LINK COLOR)
	LINK COLOR
	OPTICAL INTERFACE DESCRIPTOR

FIG. 8

OIPE
JUL 06 2004
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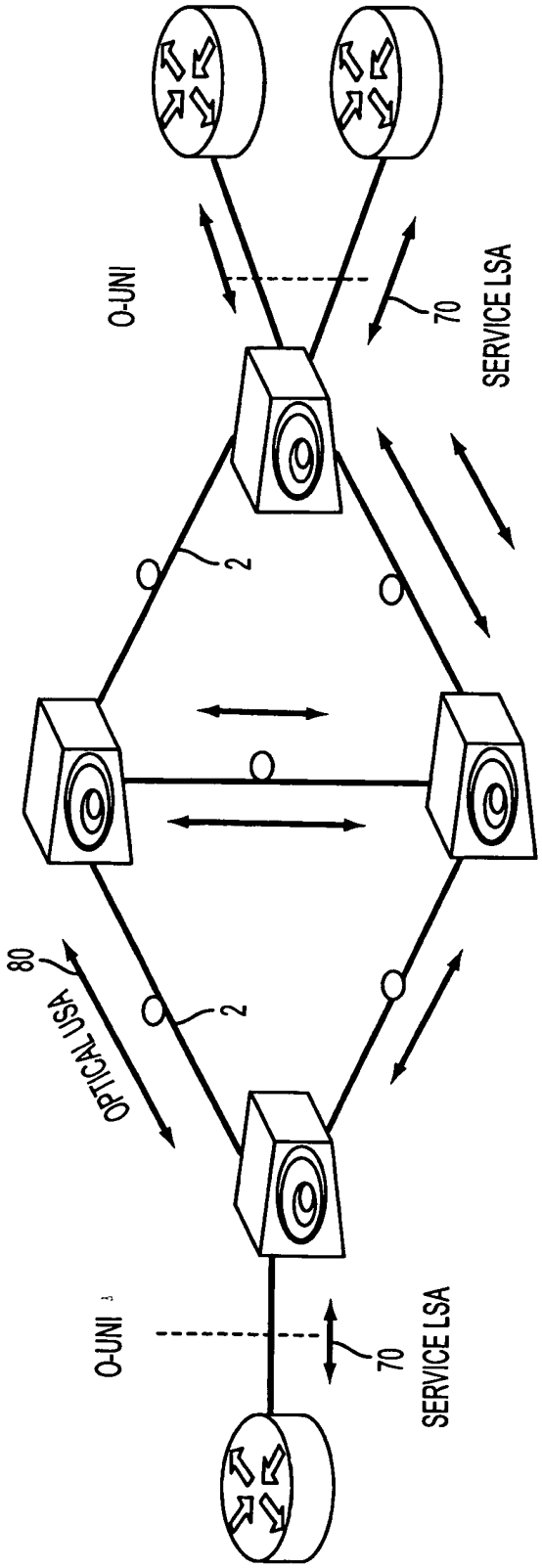

FIG. 9

OIPE
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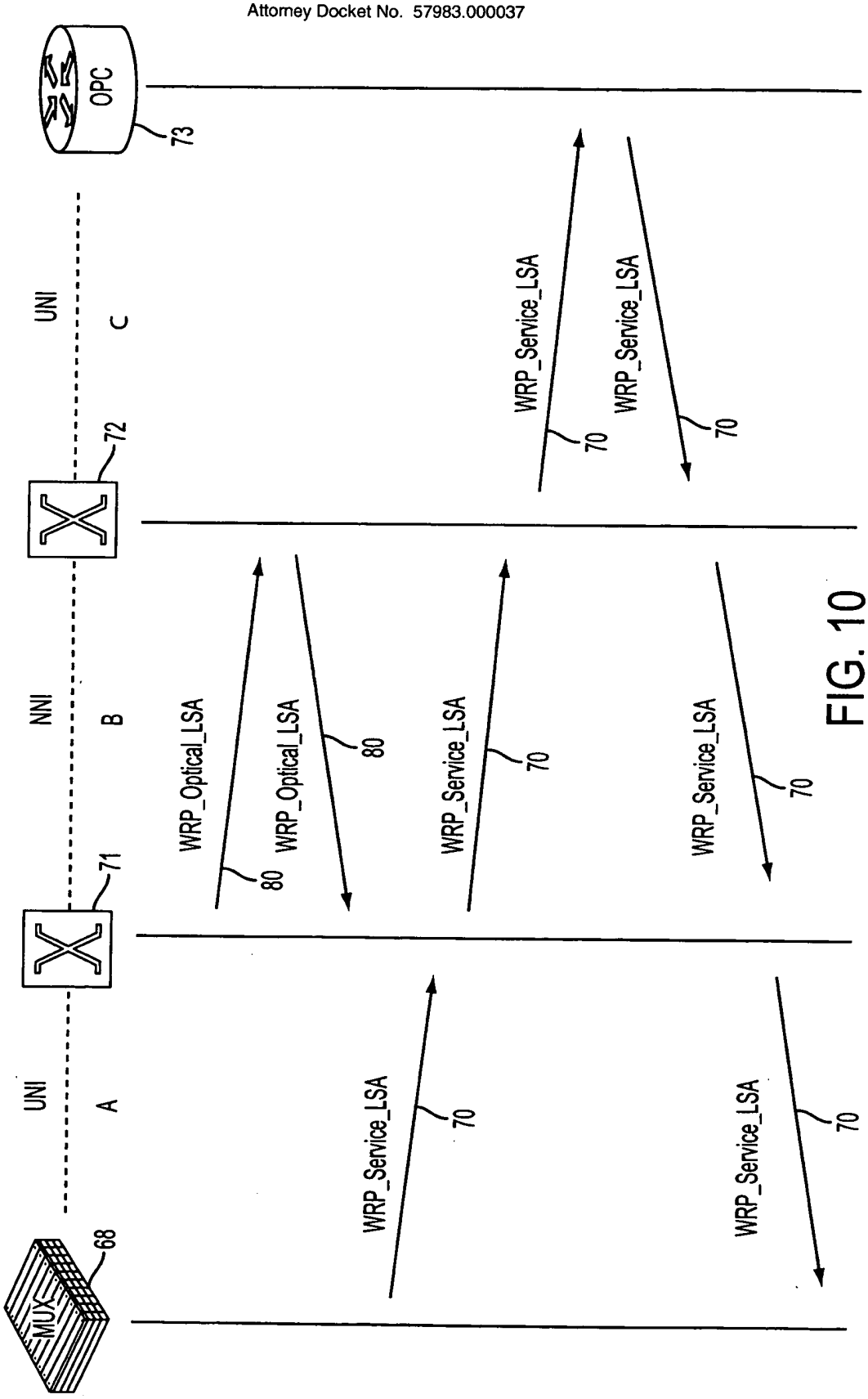

FIG. 10

OIPE JC32
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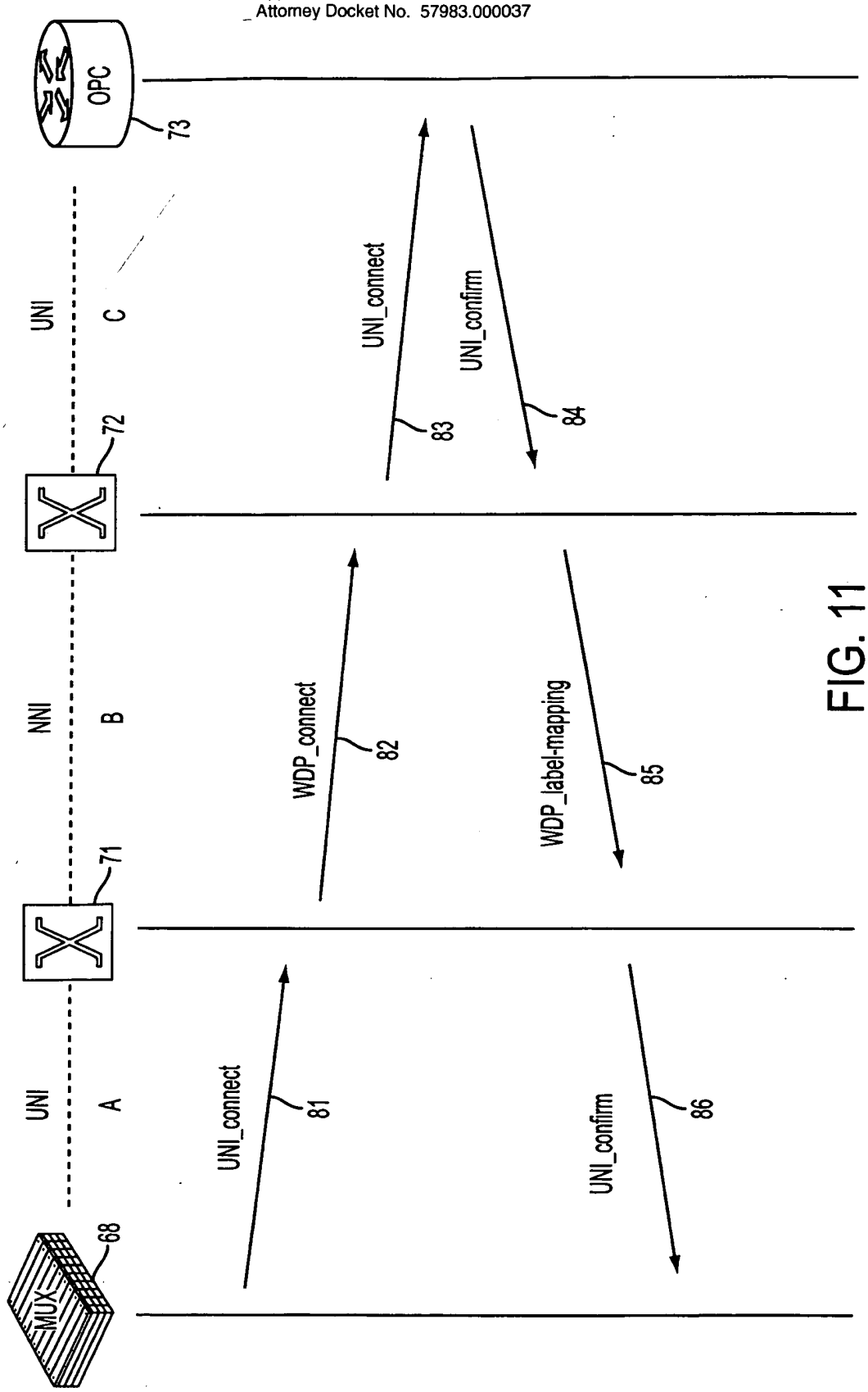

FIG. 11

JUL 06 2004
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"User-Constrained Optical Route Flooding System and Method"
Applicant: Guo Qiang Wang
Application No. 09/892,569
Attorney Docket No. 57983.000037

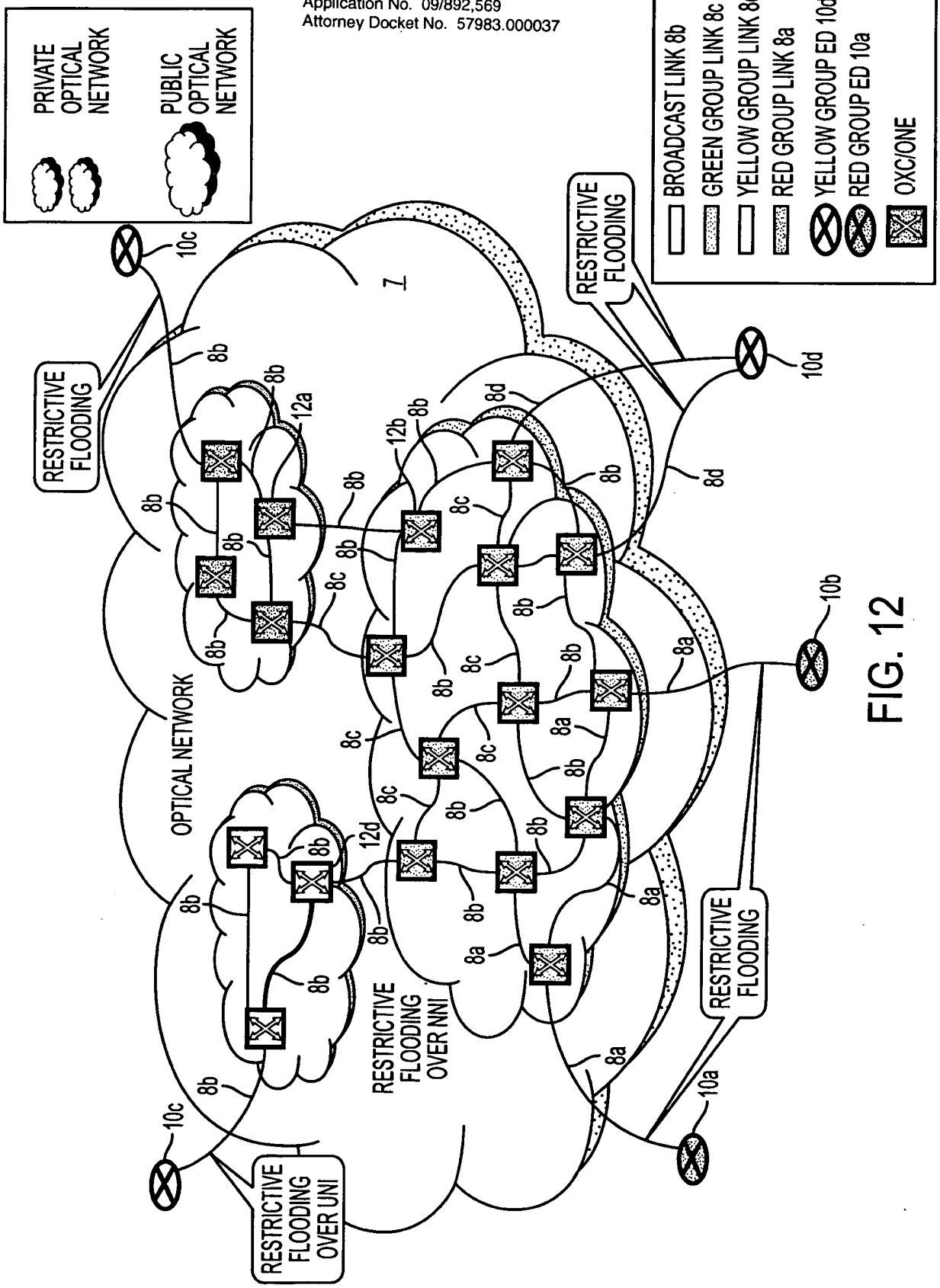

FIG. 12

OIPE
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PATENT & TRADEMARK OFFICE

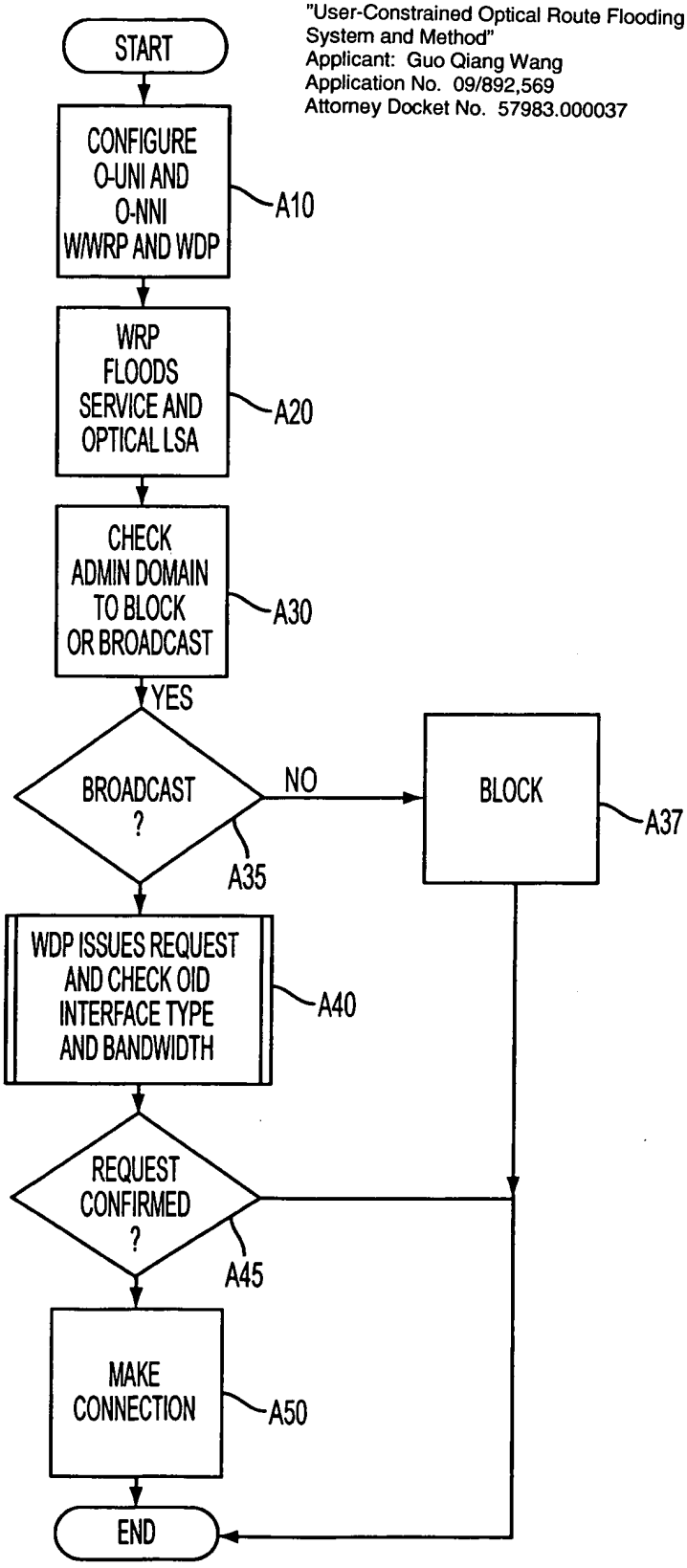

FIG. 13

OIPE JC32
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PATENT & TRADEMARK OFFICE

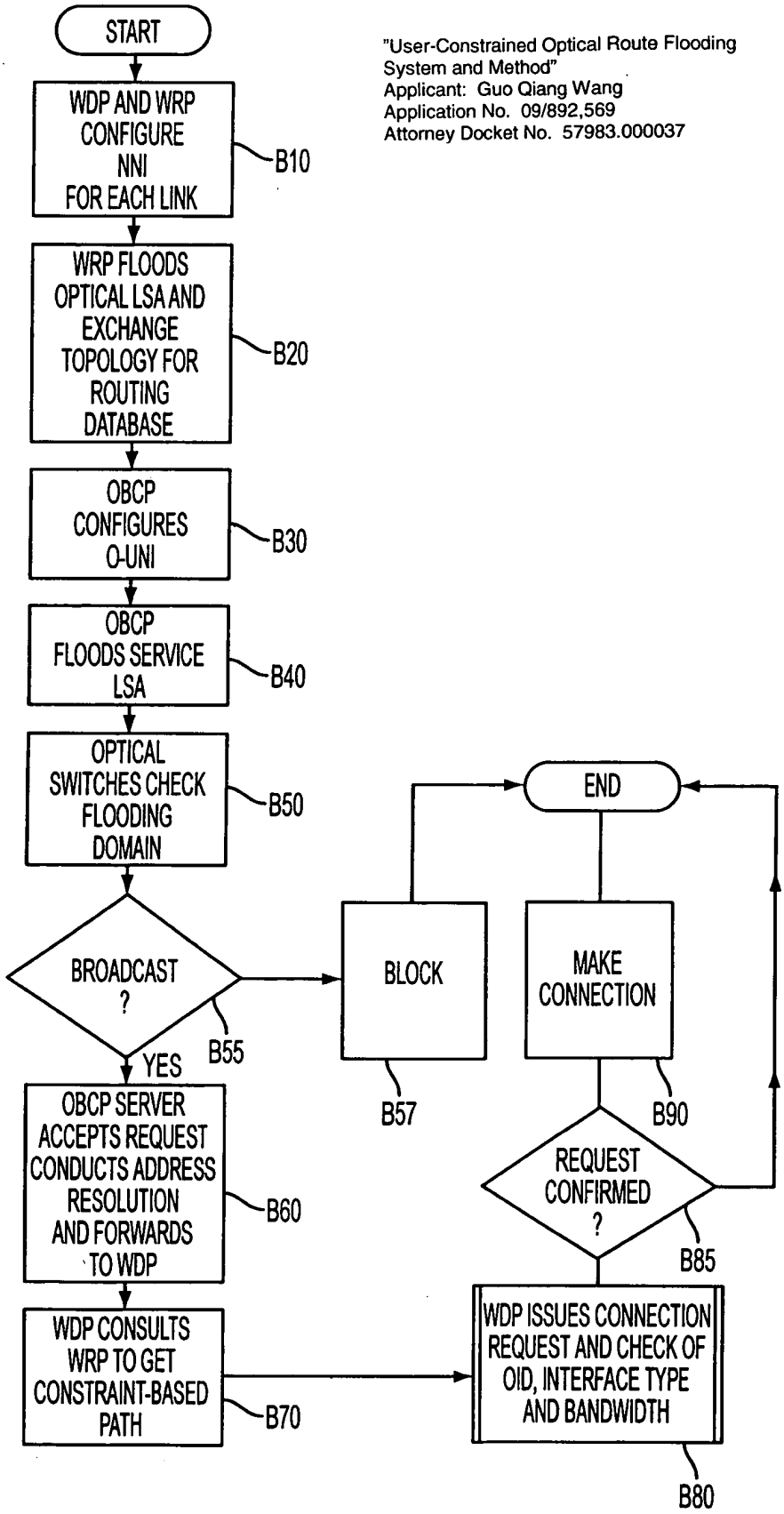

FIG. 14

OIPE JC
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SERVICE MODE A	SERVICE LSA B	OPTICAL LSA C	OTHER LSA D
NONE (0) A0	BLOCK B0	BLOCK C0	BLOCK D0
OVERLAY MODE (1) A1	FLOODING B1	BLOCK C1	BLOCK D1
AUGMENTED MODE (2) A2	FLOODING B2	FLOODING C2	BLOCK D2
PEER-TO-PEER MODE (3) A3	FLOODING B3	FLOODING C3	FLOODING D3

FIG. 15

OIPE JC32
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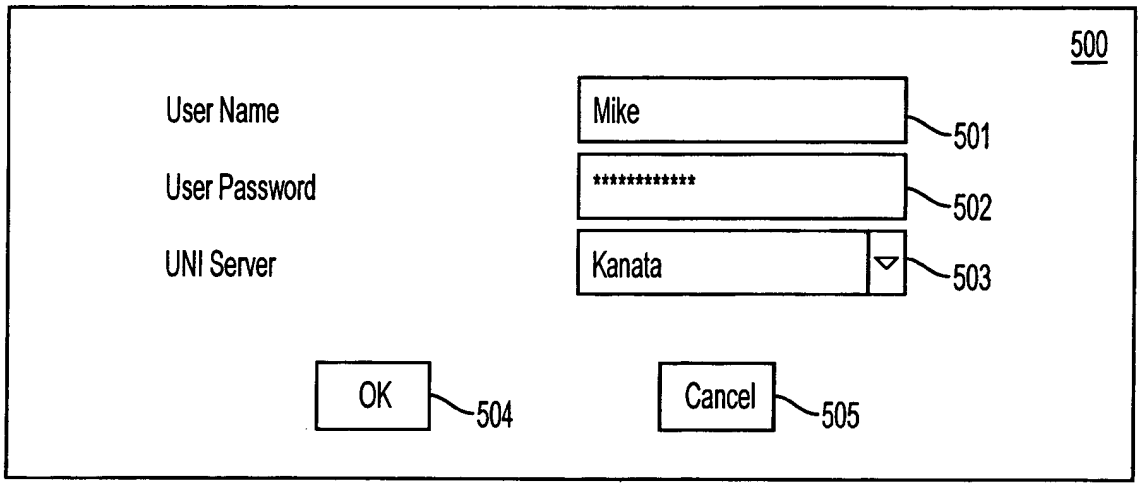

FIG. 16

OIPE JC22
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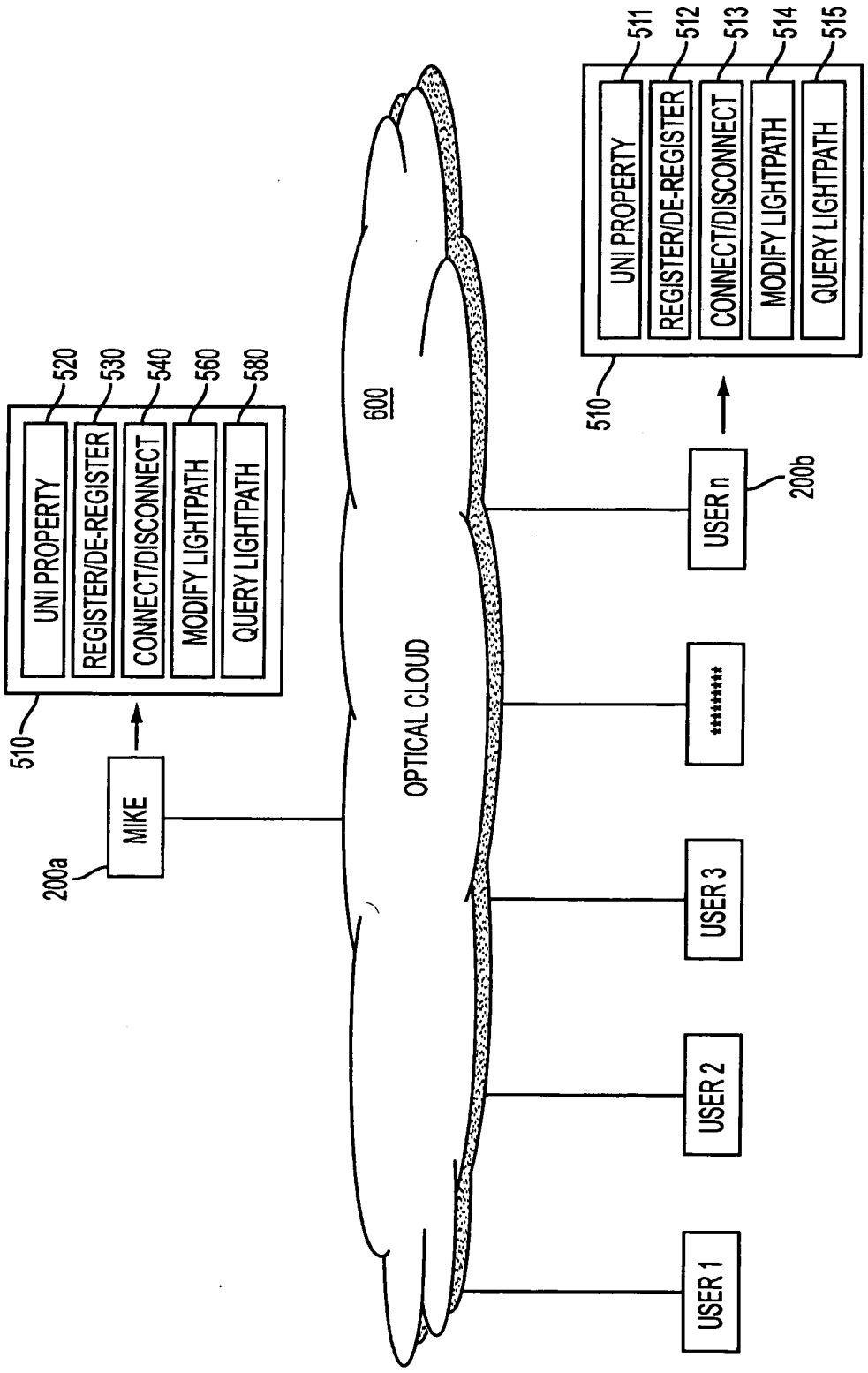

FIG. 17

OIPE
JUL 06 2004
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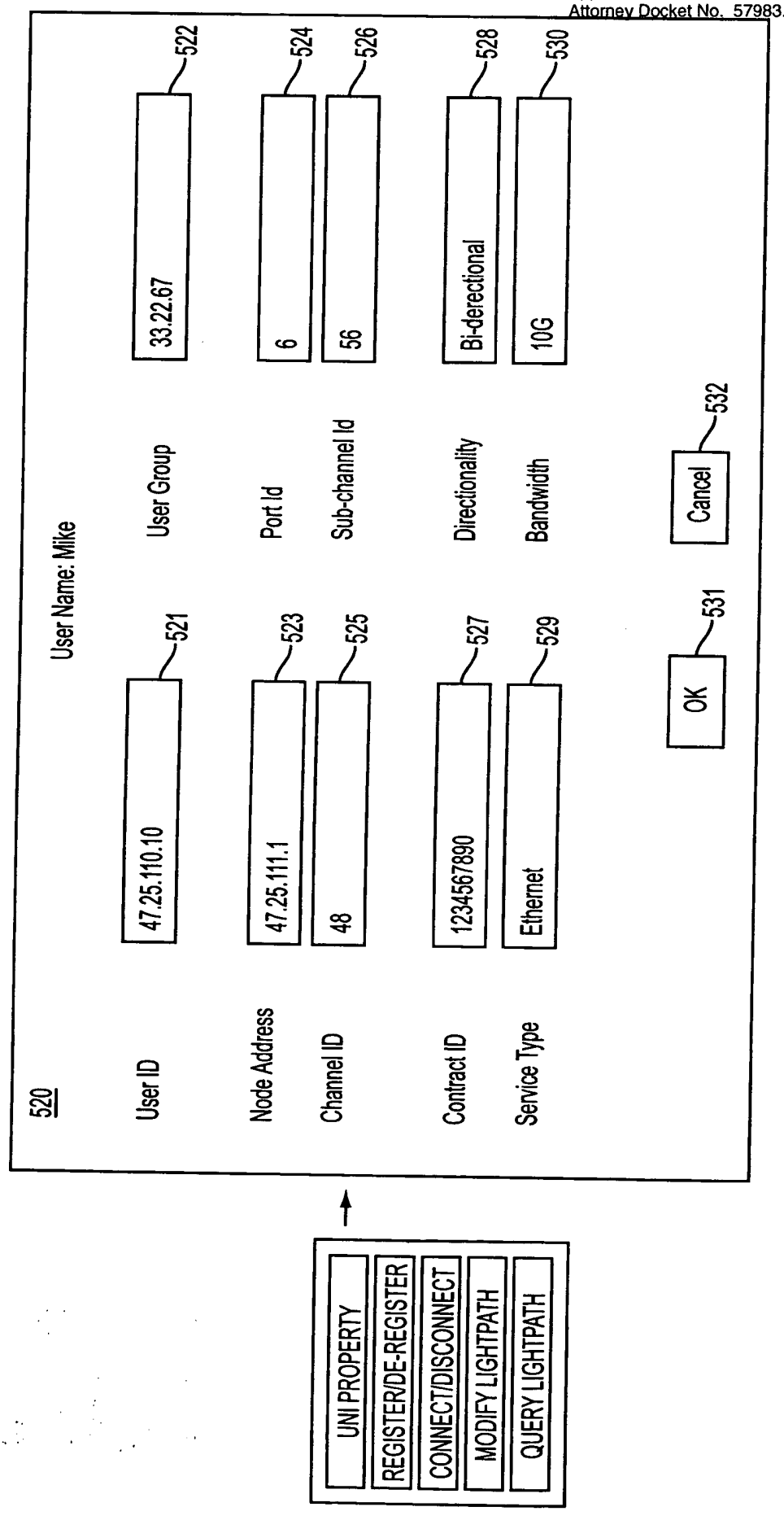

FIG. 18

OIPE
JUL 06 2004
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JC32

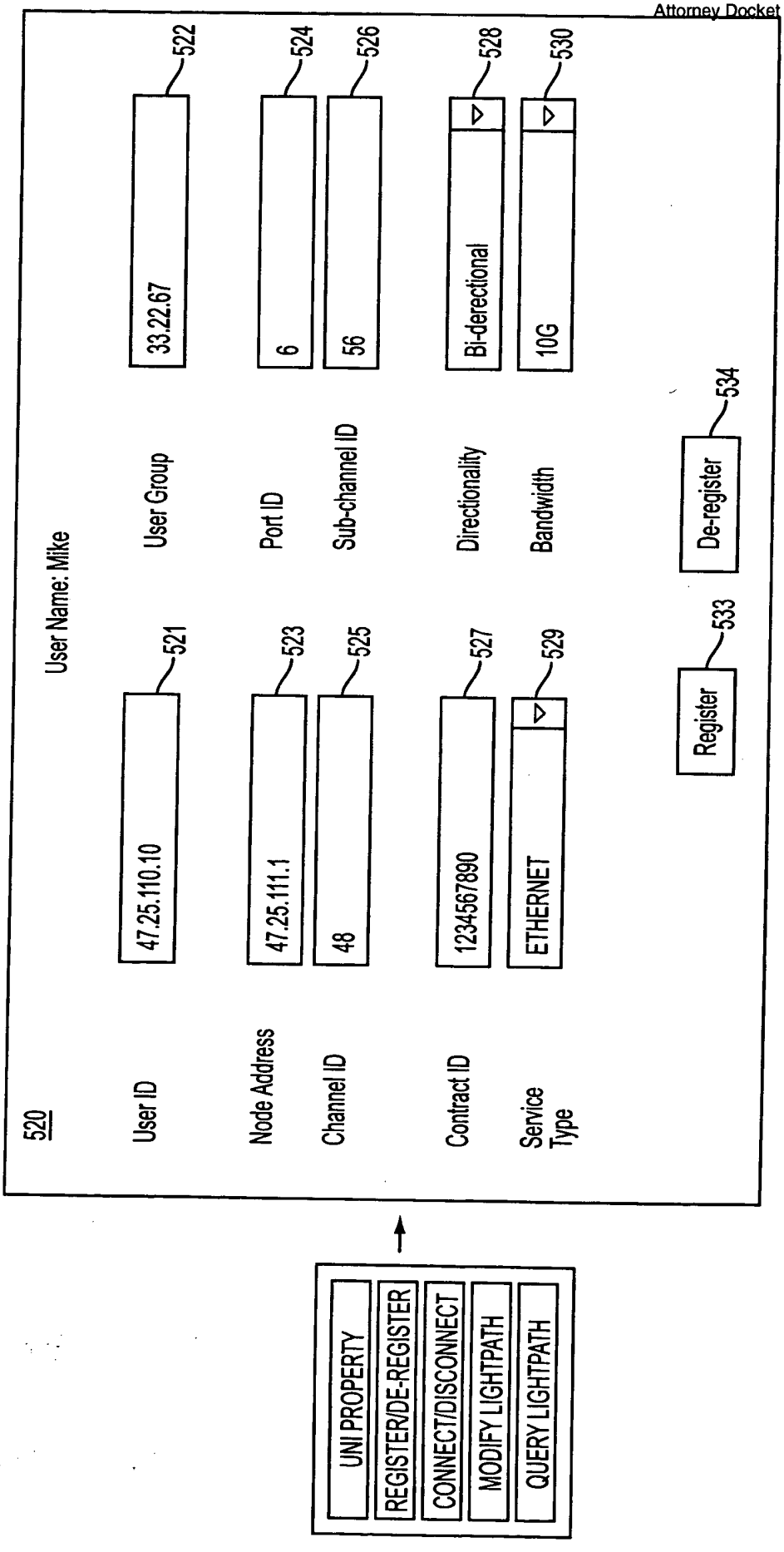

FIG. 19

OIPE
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JC32

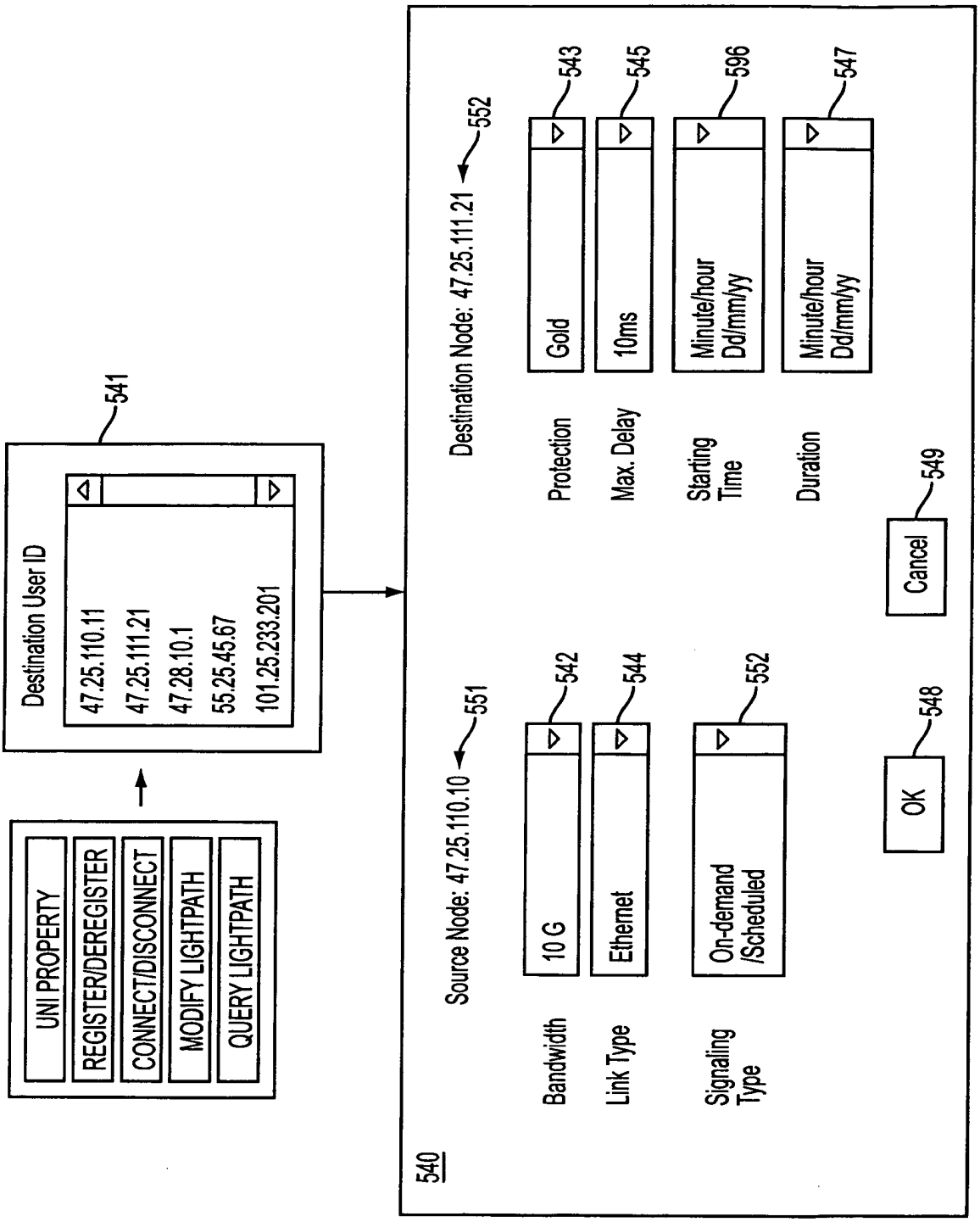

FIG. 20

JUL 06 2004
PATENT & TRADEMARK OFFICE

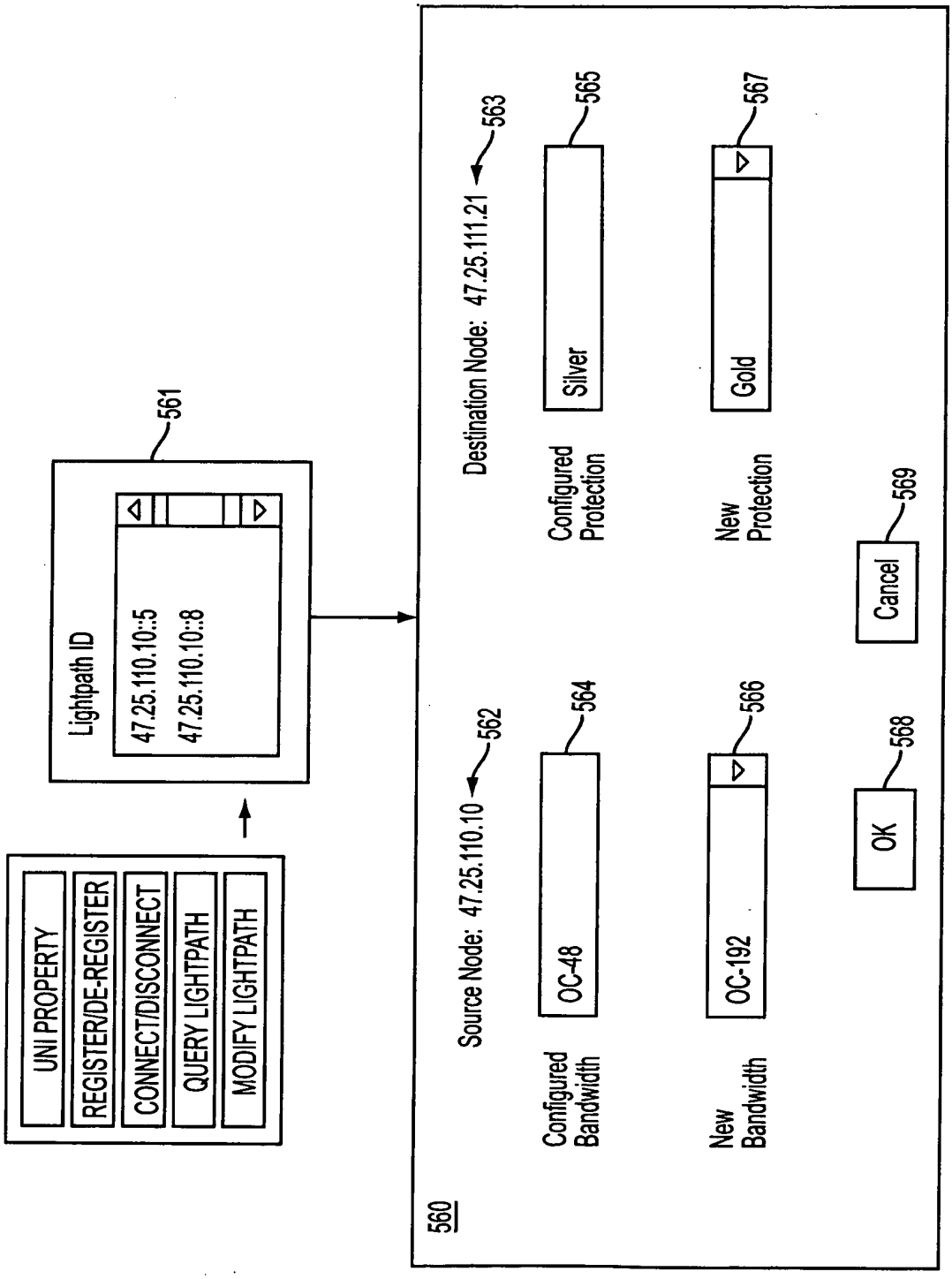

FIG. 21

OIPE
JUL 0 6 2004
PATENT & TRADEMARK OFFICE
JC32

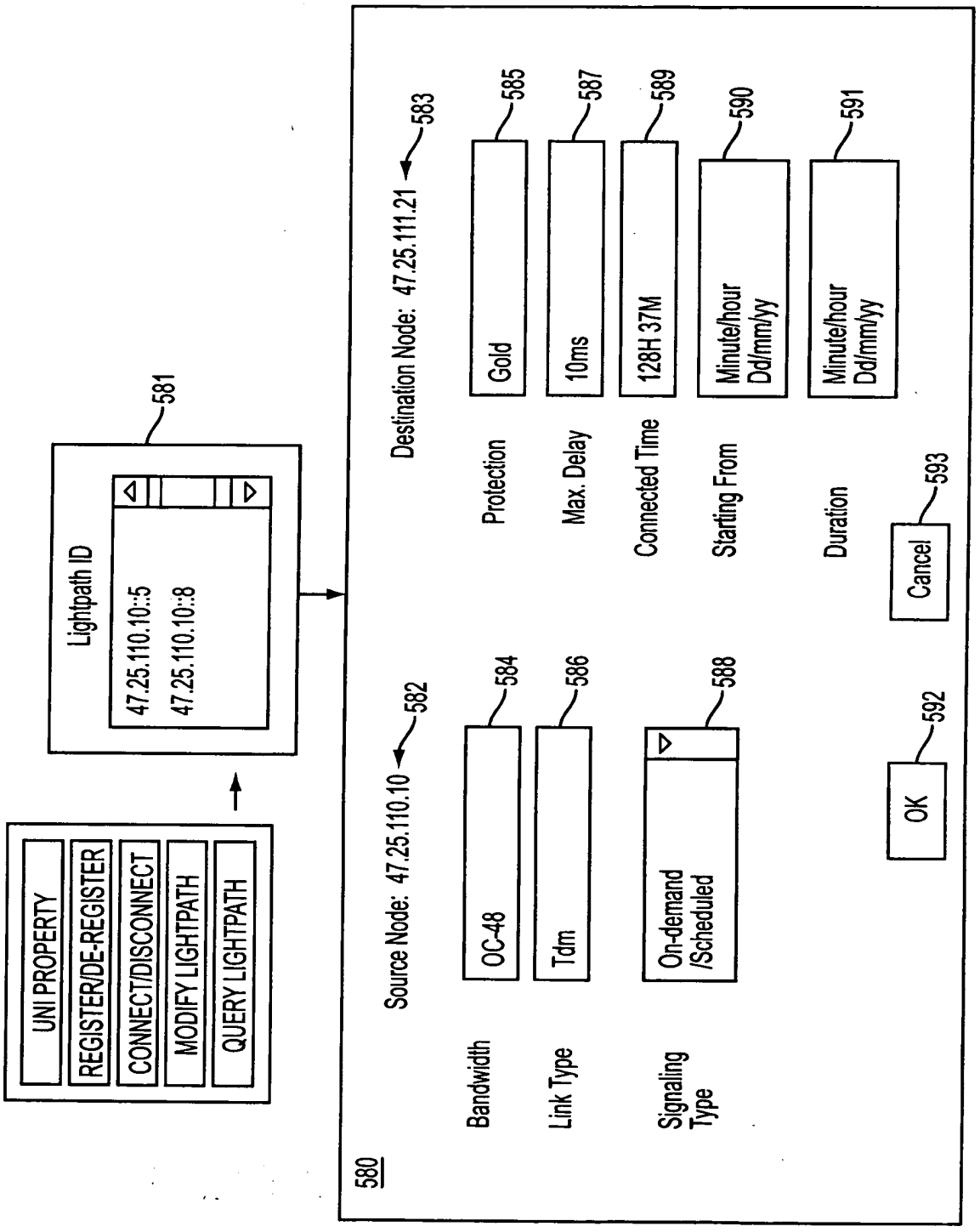

FIG. 22